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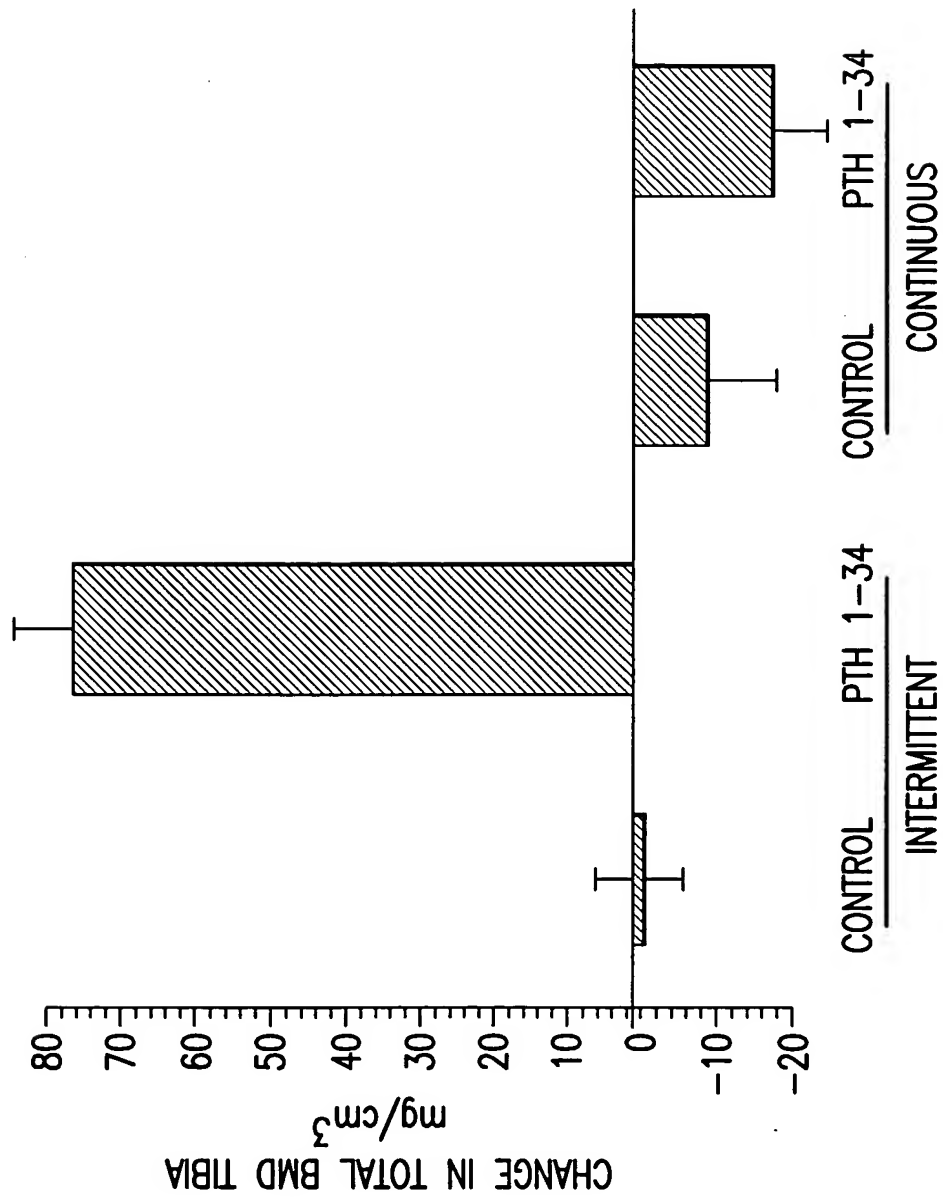


FIG.1

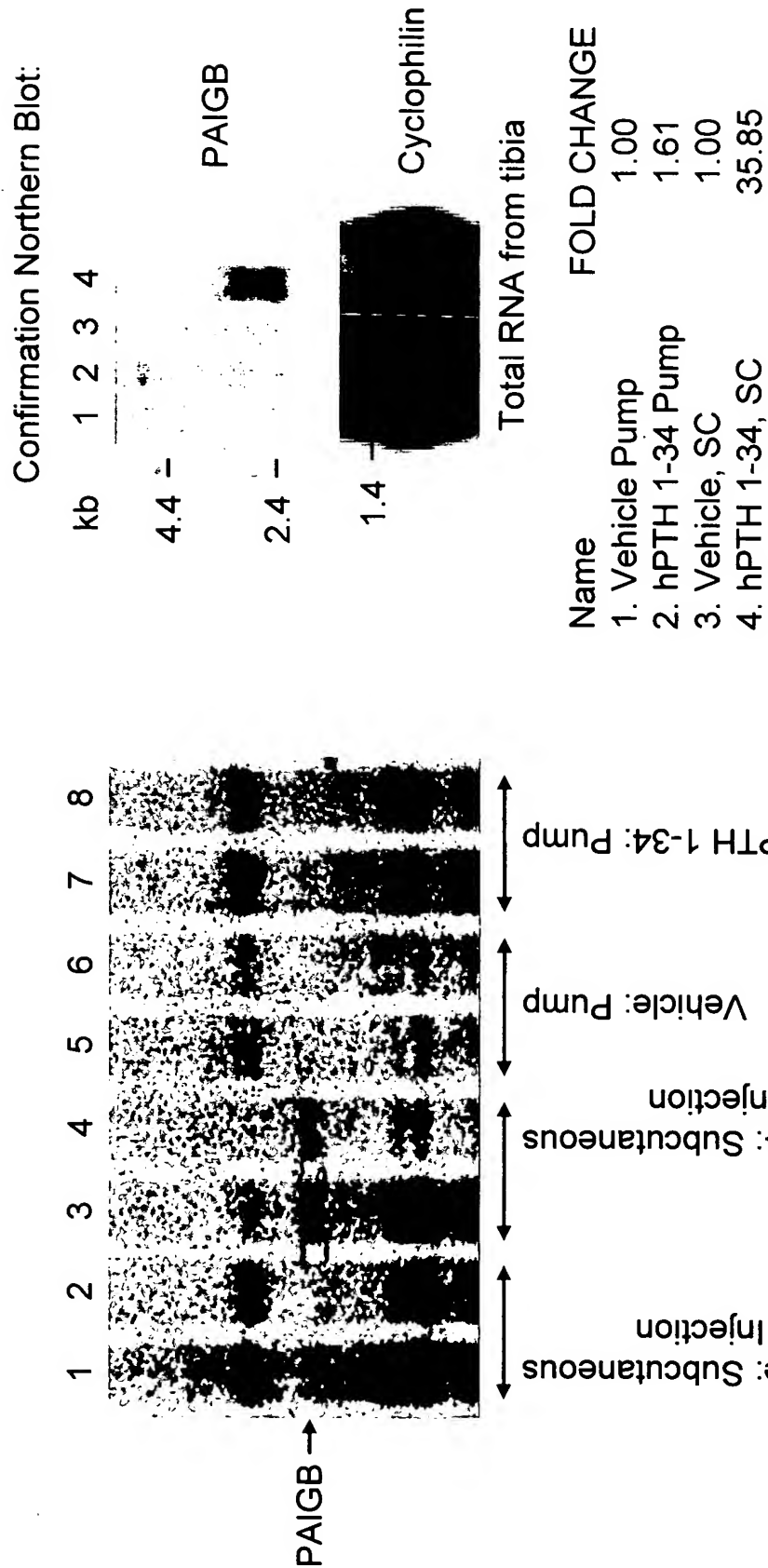
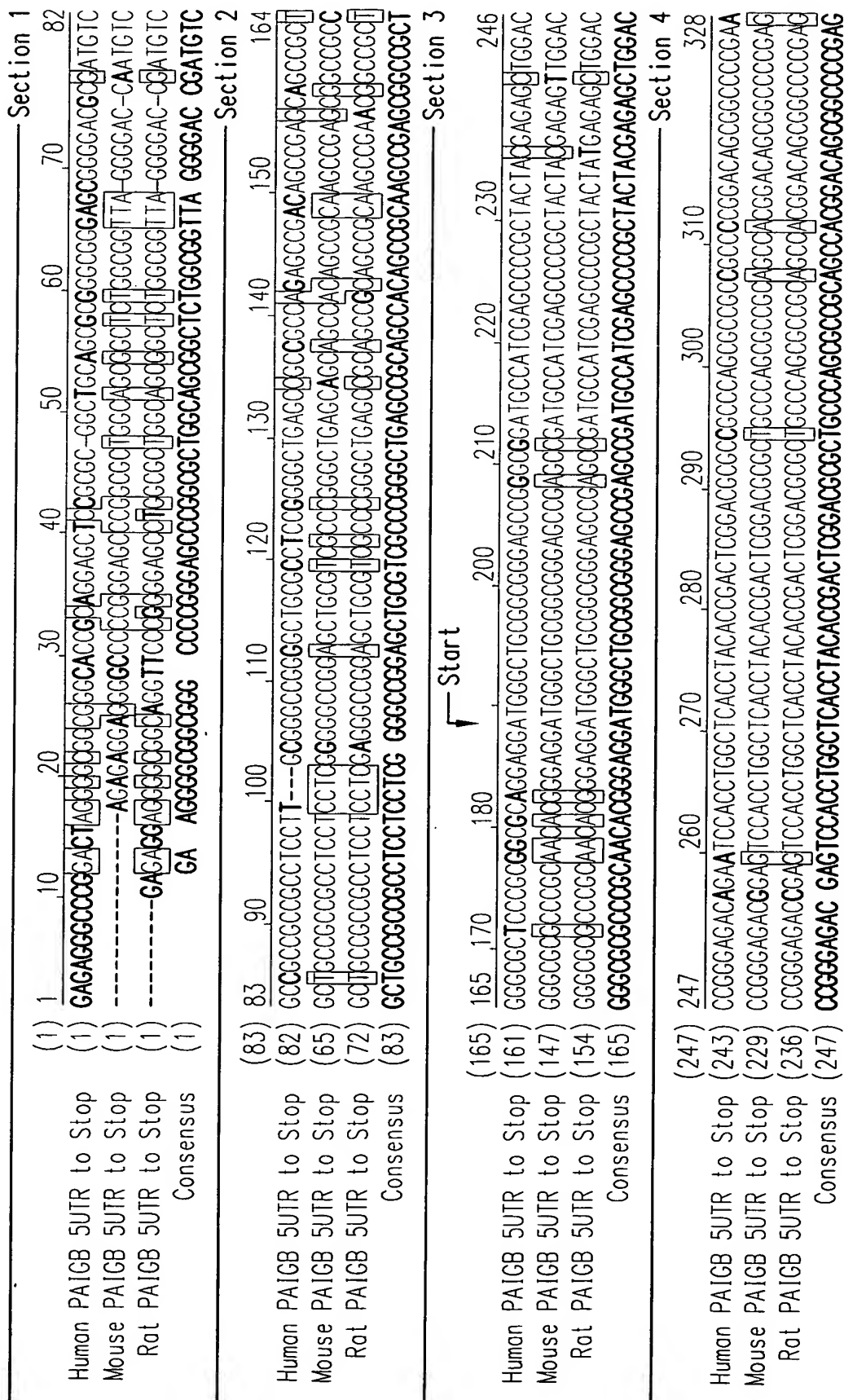


FIG.2A

FIG.2B



		Section 5																		
		(329)	329	340	350	360	370	380	390	400	410									
Human	PAIGB 5UTR to Stop	(325)	GGGGGGCC	TGCAC	TGGGCA	TGCTGGAAGATGGAC	TGCCC	TCCAA	TGGT	TGCCCGGATCTACAGCC	CGGTGGAATAC									
Mouse	PAIGB 5UTR to Stop	(311)	GGGGGGCC	TGCAC	CGGGTG	TGCTGGAAGACGGAC	TGTCCT	TAAAGGG	TGCTCCGAC	TGCGAGCC	CCCGGGTGGAAATAG									
Rat	PAIGB 5UTR to Stop	(318)	GGGGGGCC	TGCAC	CGGGTG	TGCTGGAAGACGGGCG	TCTCT	TAAAGGG	TGCTCCGAC	TGCGAGCC	CCCGGGTGGAAATAG									
Consensus		(329)	GGGGGGCC	TGCAC	CGGGTG	TGCTGGAAGACGGAC	TGTCCT	TAAAGGG	TGCTCCGAC	TGCGAGCC	CGGTGGAATAG									
		Section 6																		
		(411)	411	420	430	440	450	460	470	480	492									
Human	PAIGB 5UTR to Stop	(407)	CCAA	CCGAGAG	AAGACCA	ACTGTGAG	ACCCAG	TGCC	AAATCC	CCACAG	CCCTCAG	CTCAG	CTCAG	CCCG	CTTG	ACCC	CAGAA	ACA		
Mouse	PAIGB 5UTR to Stop	(393)	CCA	CCGAGAG	AAGACCA	ACTGTGG	ACCCAG	TGTC	CCAACT	CCACAG	ACCTCAG	CTCAG	CTCAG	CCCG	CTTG	ACCC	CAGAA	ACA		
Rat	PAIGB 5UTR to Stop	(400)	CCA	CCGAGAG	AAGACCA	ACTGTGG	ACCCAG	TGTC	CCAACT	CCACAG	CCCTCAG	CTCAG	CTCAG	CCCG	CTTG	ACCC	CAGAA	ACA		
Consensus		(411)	CCA	CCGAGAG	AAGACCA	ACTGTGG	ACCCAG	TGTC	CCAACT	CCACAG	CCCTCAG	CTCAG	CTCAG	CCCG	CTTG	ACCC	CAGAA	ACA		
		Section 7																		
		(493)	493	500	510	520	530	540	550	560	574									
Human	PAIGB 5UTR to Stop	(489)	GAATGGCC	TTT	CAG	CCACACAGAG	CTAA	AAGAGATGCT	AAGAGATG	CCCTG	CCAA	AAGAAGT	CA	CA	TTT	TA	TG	TACAGATAGC		
Mouse	PAIGB 5UTR to Stop	(475)	GAATGGCC	TTT	CGG	CCACACAGAG	CTAA	AAGAGATGCT	AAGAGATG	CCCTG	CCAA	AAGAAGT	CA	CA	TTT	TA	TG	TACAGATAGC		
Rat	PAIGB 5UTR to Stop	(482)	GAATGGCC	TTT	CGG	CCACACAGAG	CTAA	AAGAGATGCT	AAGAGATG	CCCTG	CCAA	AAGAAGT	CA	CA	TTT	TA	TG	TACAGATAGC		
Consensus		(493)	GAATGGCC	TTT	CGG	CCACACAGAG	CTAA	AAGAGATGCT	AAGAGATG	CCCTG	CCAA	AAGAAGT	CA	CA	TTT	TA	TG	TACAGATAGC		
		Section 8																		
		(575)	575	580	590	600	610	625												
Human	PAIGB 5UTR to Stop	(571)	ATCC	AAACAGATGG	CACAGAA	TGG	AAGAA	TCAC	AAGA	AACTG	TG	TCA	AACTAG							
Mouse	PAIGB 5UTR to Stop	(557)	ATT	CGG	CAGATGG	CACAGAA	TAA	AAGGG	TAC	CA	AAAG	AACTG	CA	TCA	AACTAG					
Rat	PAIGB 5UTR to Stop	(564)	AT	CGG	CAGATGG	CACAGAA	TAA	AAGGG	TAC	CA	AAAG	AACTG	CA	TCA	AACTAG					
Consensus		(575)	ATCC	GGCAGATGG	CACAGAA	TAA	AAGGG	TAC	CA	AAAG	AACTG	CA	TCA	AACTAG						
		Stop																		

FIG.3-1

Section 1									
(1)	1	10	20	30	40	50	63		
Human PAIGB	(1)	MCGGSRADA	IEPRYYESW	TRETESTWL	TYTSDA	PPSAAA	PDSGPEAGGL	SGM	EDGLPSN
Mouse PAIGB	(1)	MCGGSRADA	IEPRYYESW	TRETESTWL	TYTSDA	PPSAAA	PDSGPEAGGL	HAGV	LEDGLSSN
Rat PAIGB	(1)	MCGGSRADA	IEPRYYESW	TRETESTWL	TYTSDA	PPSAAA	PDSGPEAGGL	HAGV	LEDGLSSN
Consensus	(1)	MCGGSRADA	IEPRYYESW	TRETESTWL	TYTSDA	PPSAAA	PDSGPEAGGL	HAGV	LEDGLSSN
Section 2									
(64)	64	70	80	90	100	110	126		
Human PAIGB	(64)	GVPRSTAPCG	IPNPEKKT	NCETQCPN	PSQSSG	PLTQKQNG	LQTTEAKRDAKRM	PAKE	VTINV
Mouse PAIGB	(64)	GVLRPAAPCG	IANPEKK	NCGTQCPN	SQLSSG	PLTQKQNG	LWATEAKRDAKRM	SARE	VAINV
Rat PAIGB	(64)	GVLRPAAPCG	IANPEKK	NCGTQCPN	SQLSSG	PLTQKQNG	LWATEAKRDAKRM	SARE	VAINV
Consensus	(64)	GVLRPAAPCG	IANPEKK	NCGTQCPN	SQLSSG	PLTQKQNG	LWATEAKRDAKRM	SARE	VAINV
Section 3									
(127)	127			146					
Human PAIGB	(127)	TDS	IQQMDRS	RR	ITKNQ	M			
Mouse PAIGB	(127)	TEN	IQQMDRS	KRV	ITKNQ	IN			
Rat PAIGB	(127)	TEN	IQQMDRS	KRV	ITKNQ	IN			
Consensus	(127)	TEN	IQQMDRS	KRV	ITKNQ	IN			

FIG.4

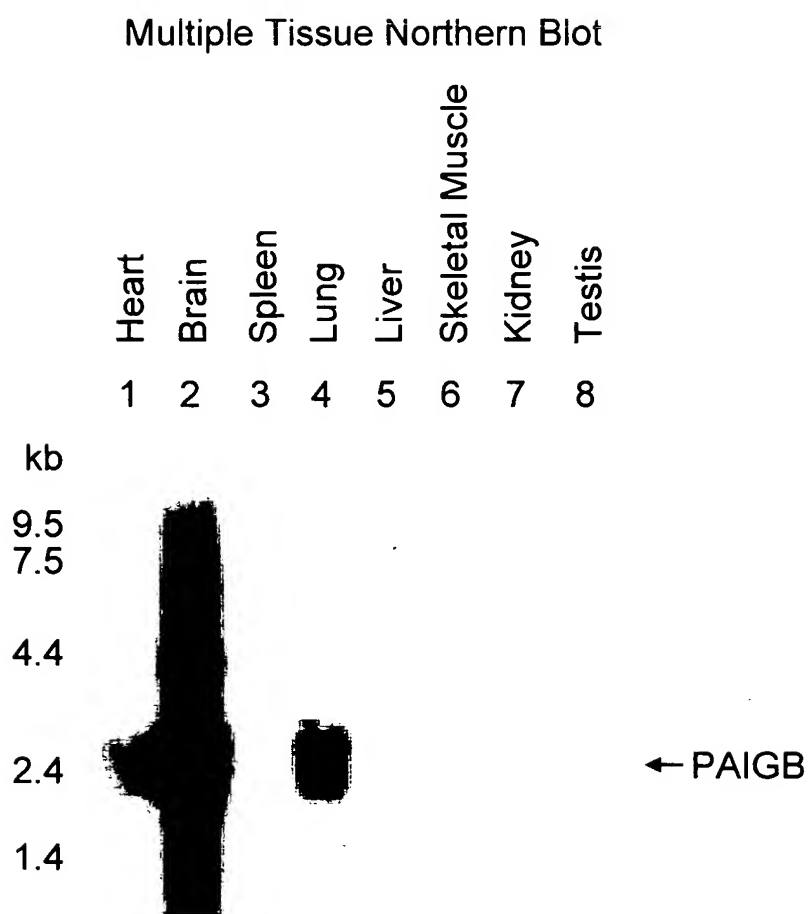


FIG.5

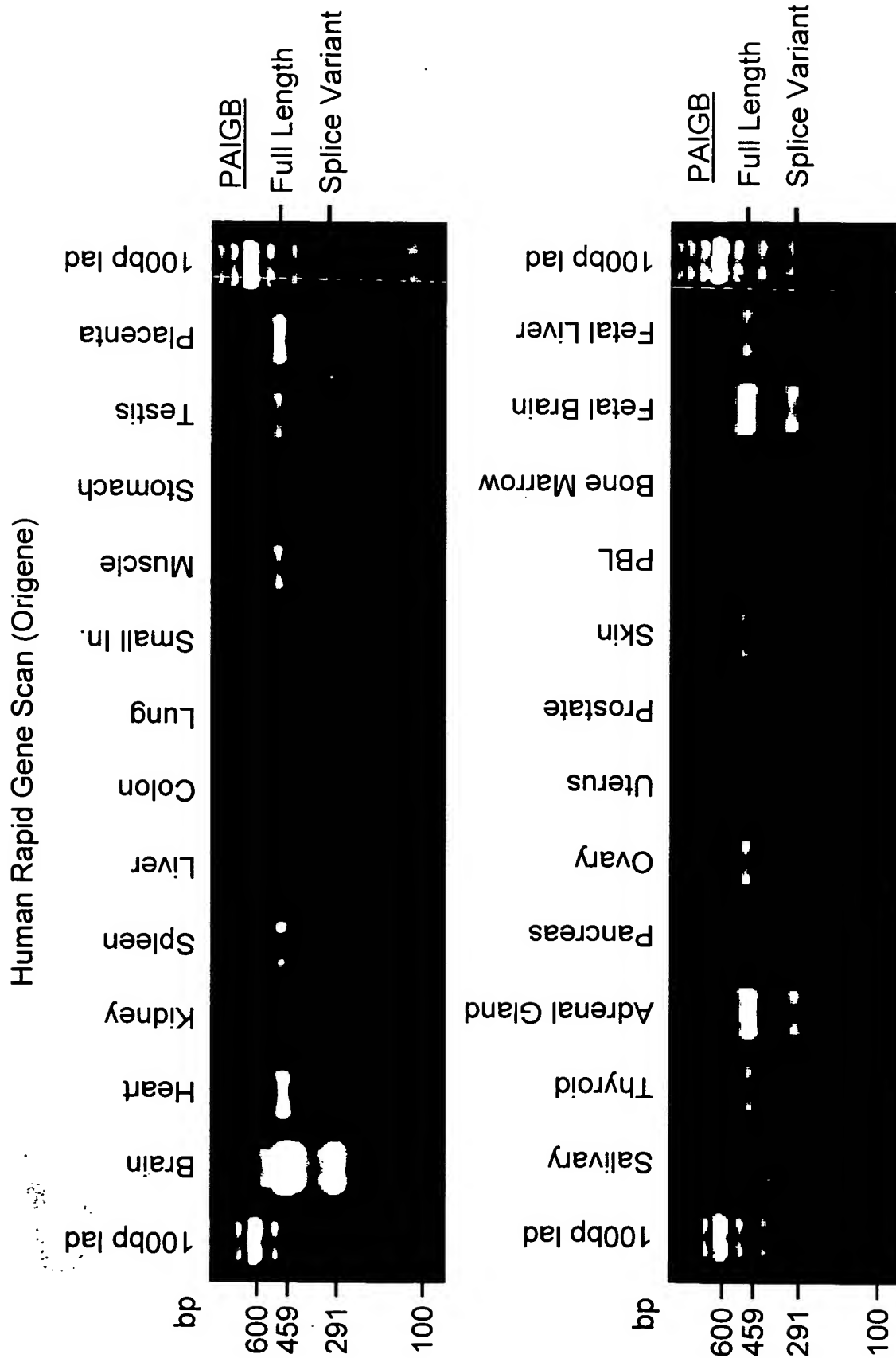


FIG.6

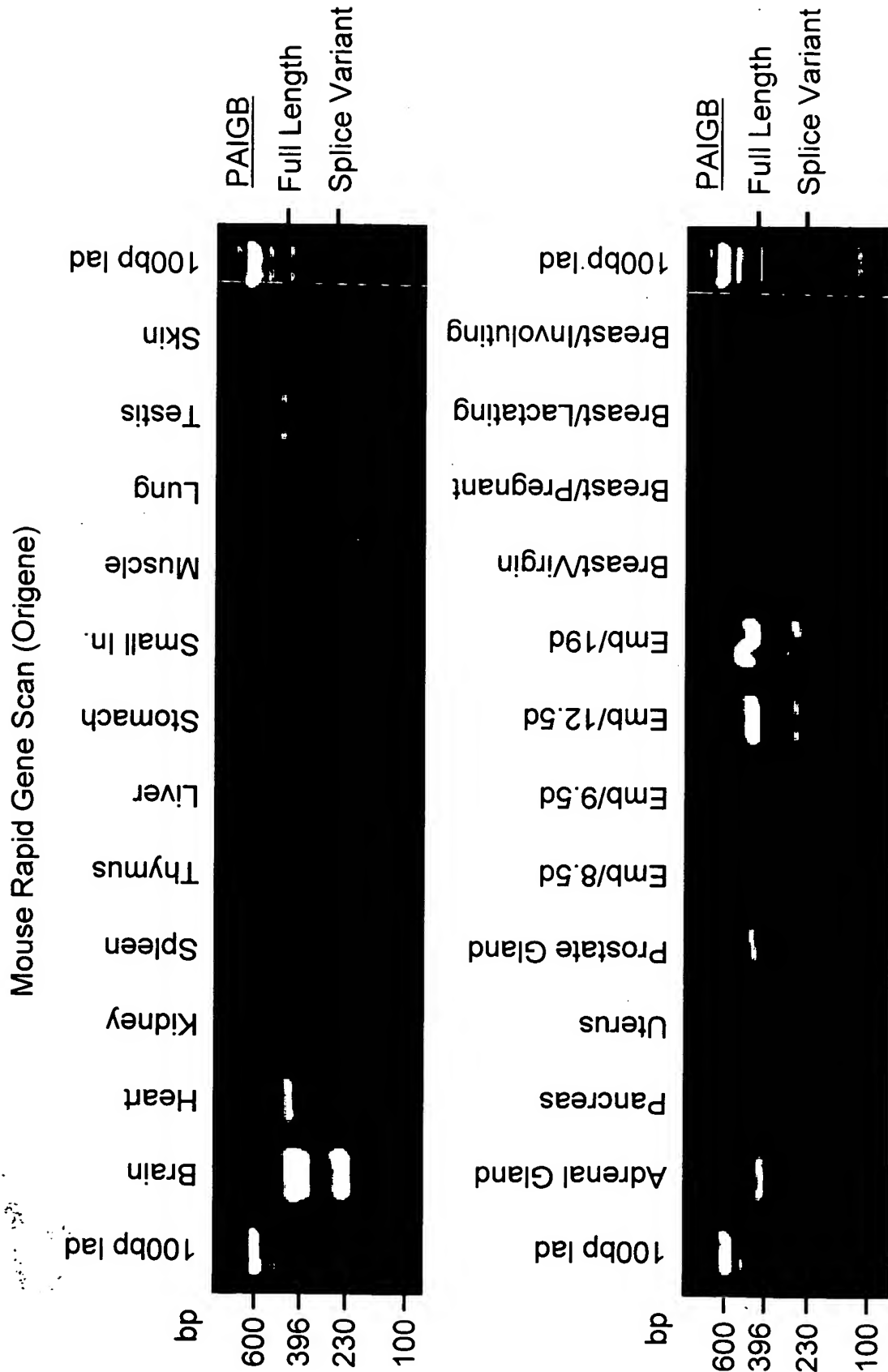


FIG. 7

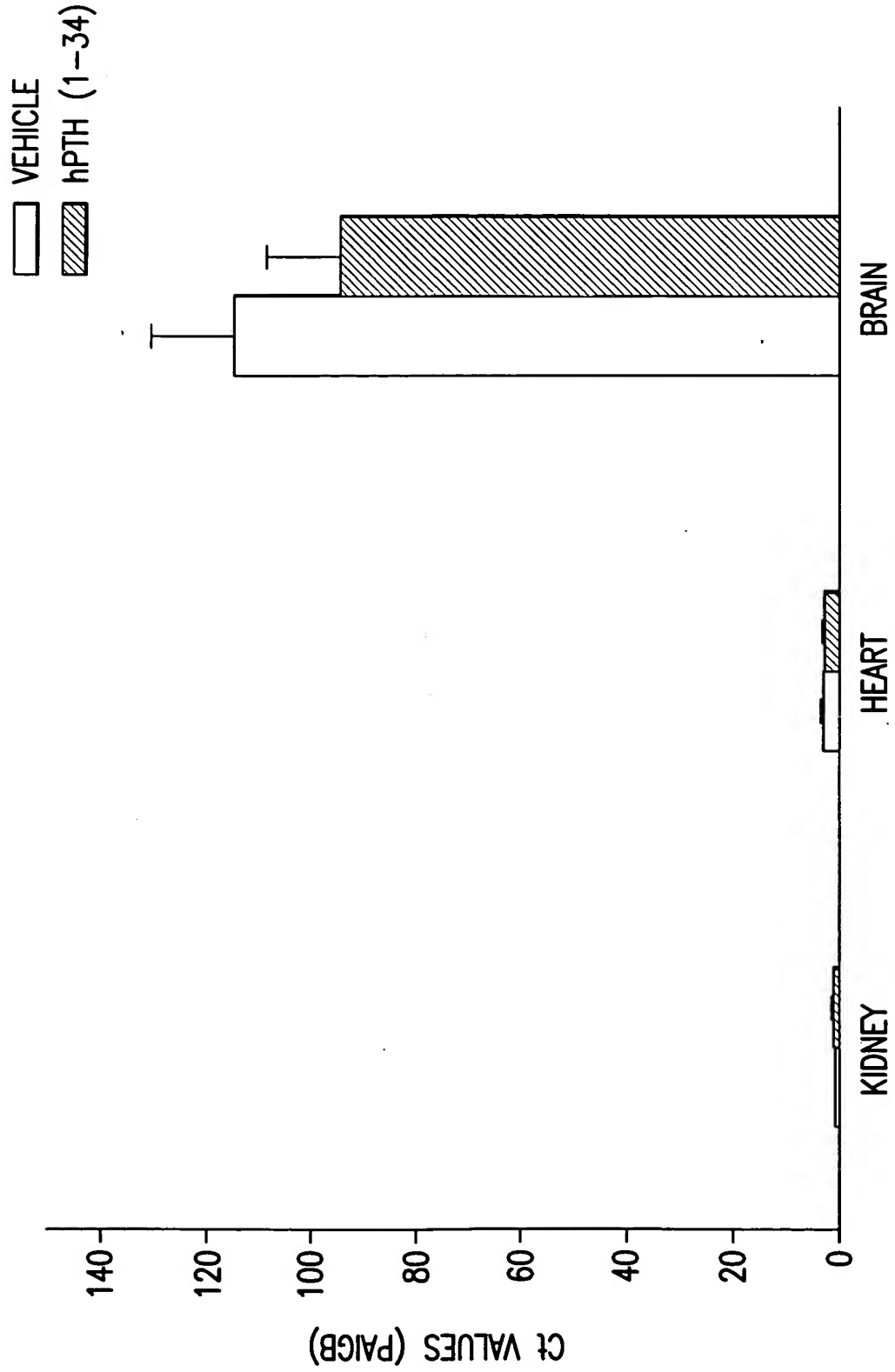


FIG. 8

PTH (1-34)100ug/kg, 1/d/s.c. 30d
 Bone: Parietal bone

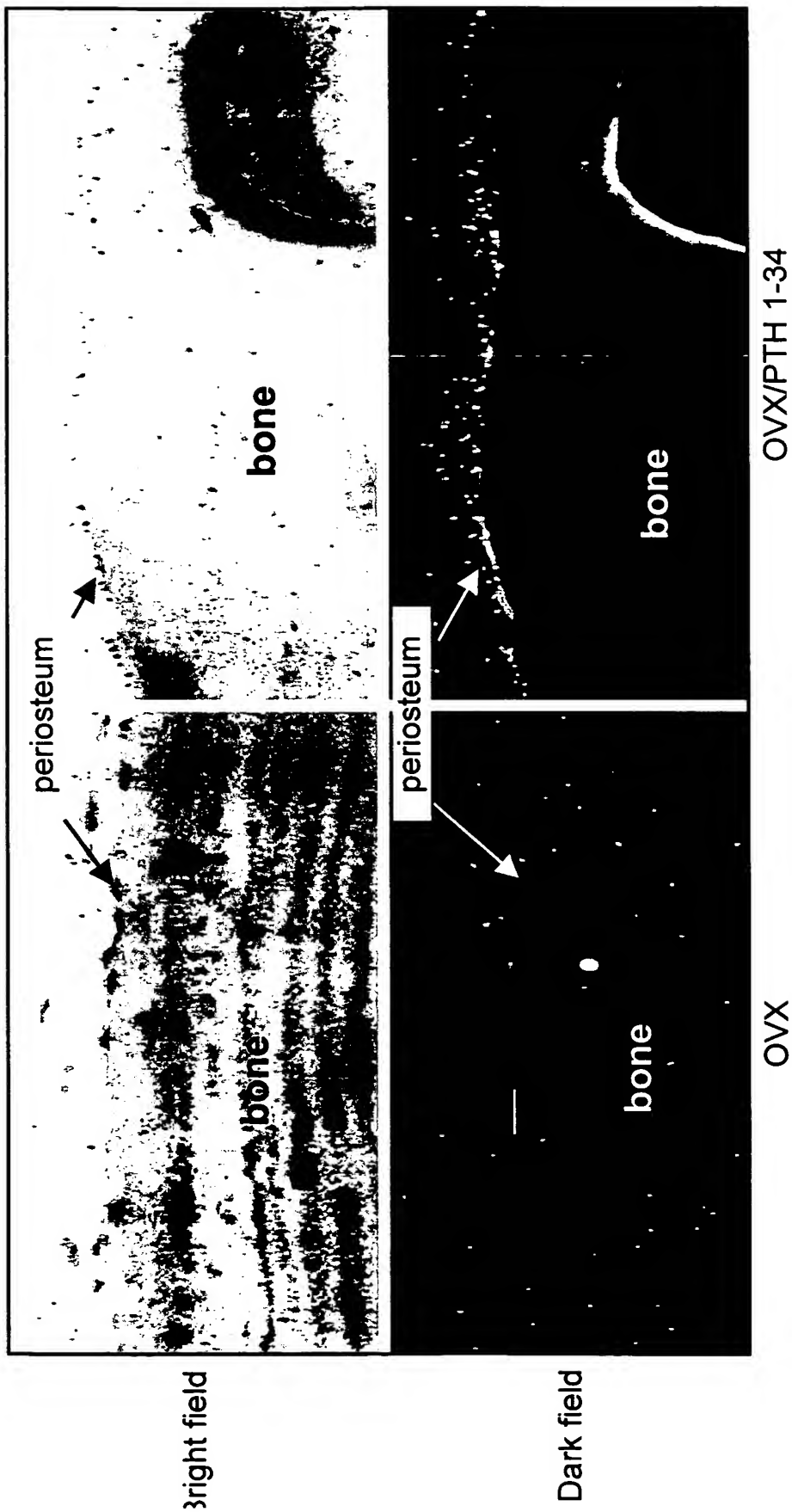


FIG.9

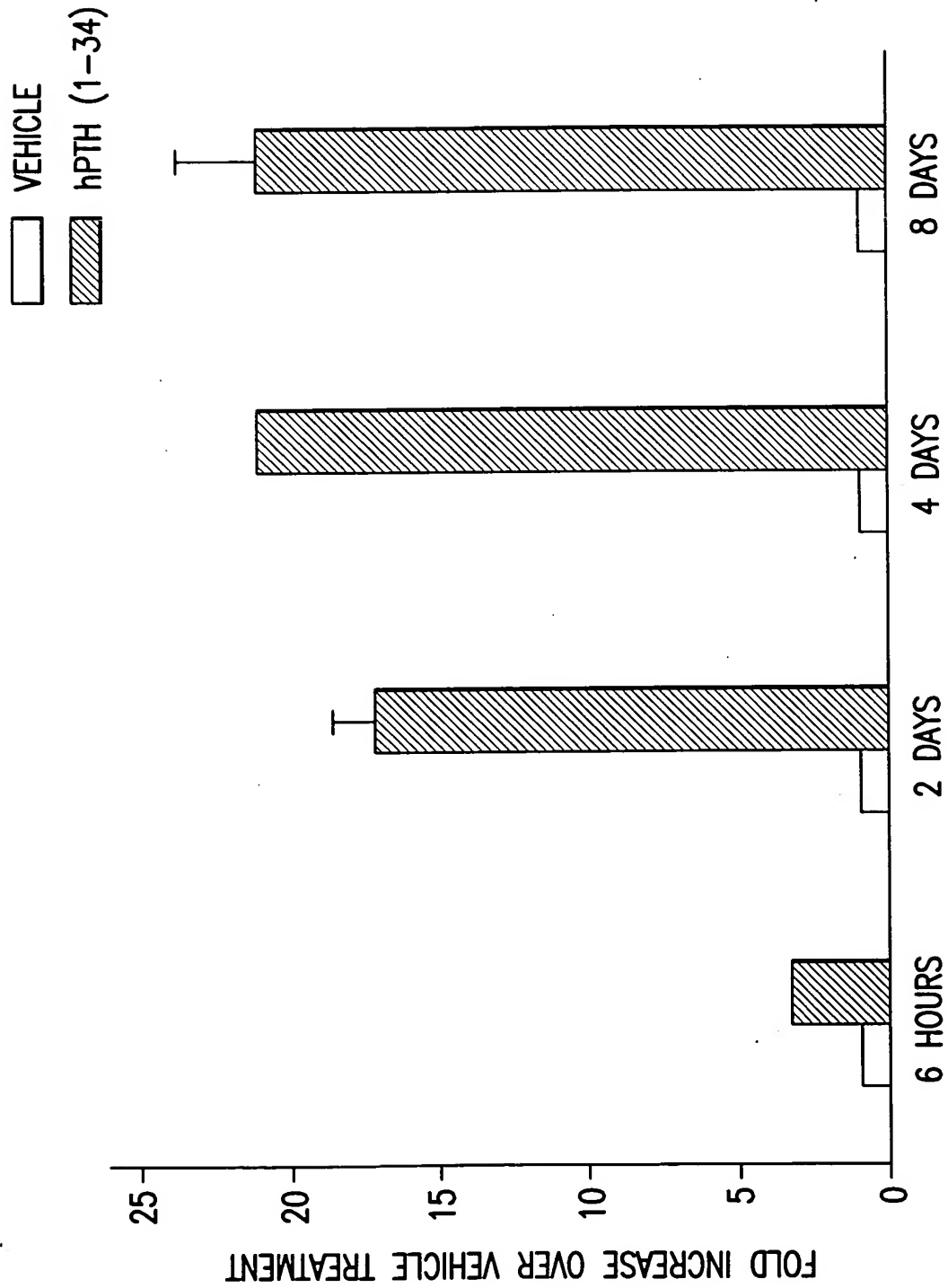


FIG. 10A

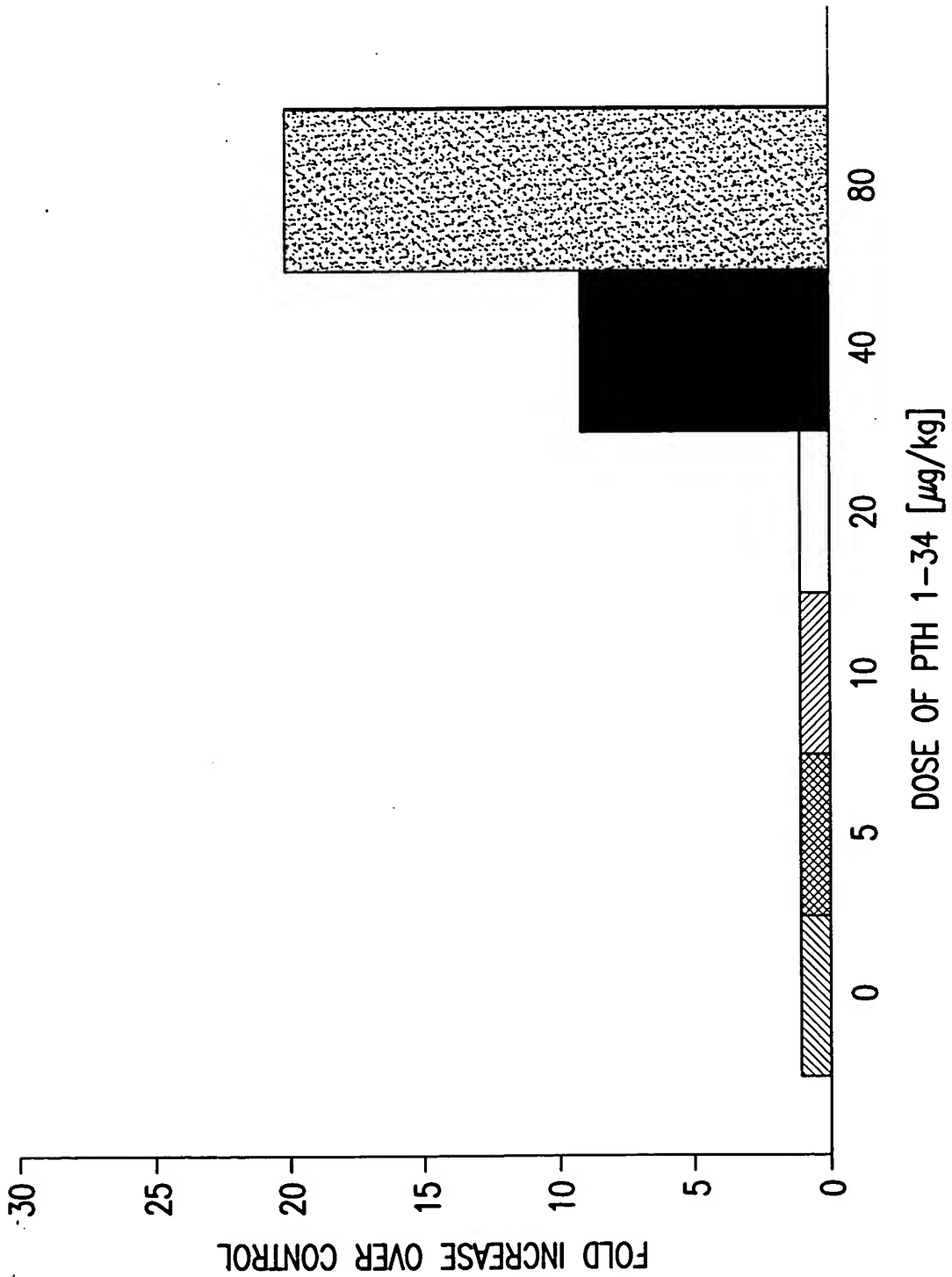


FIG. 10B

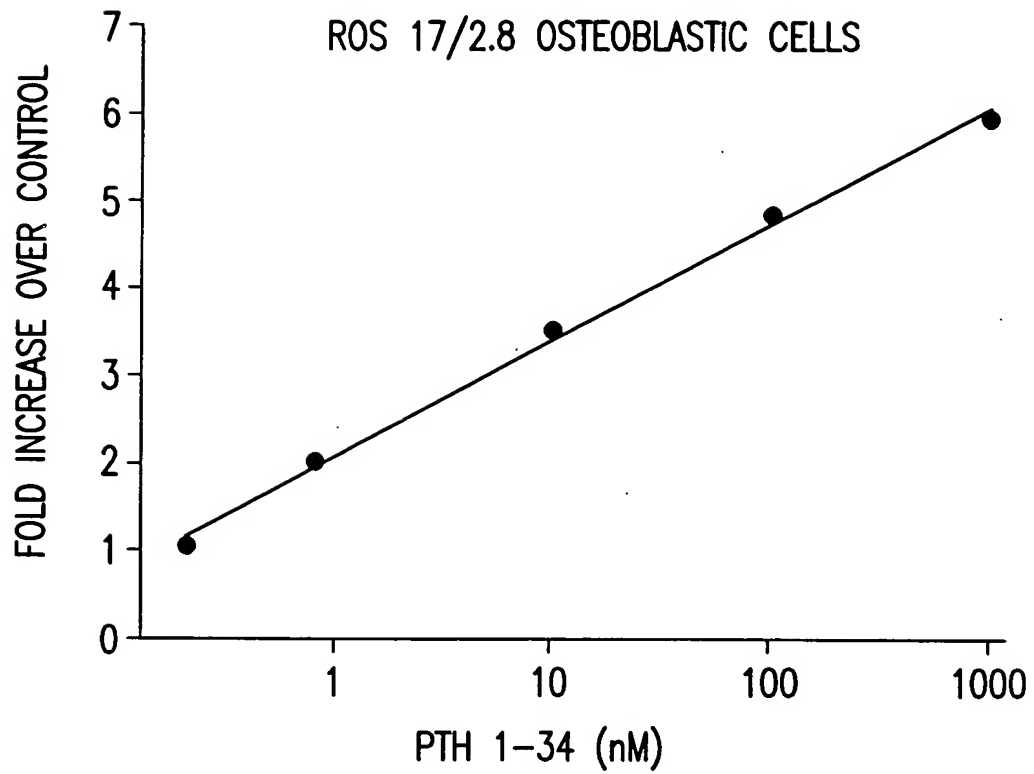


FIG. 11A

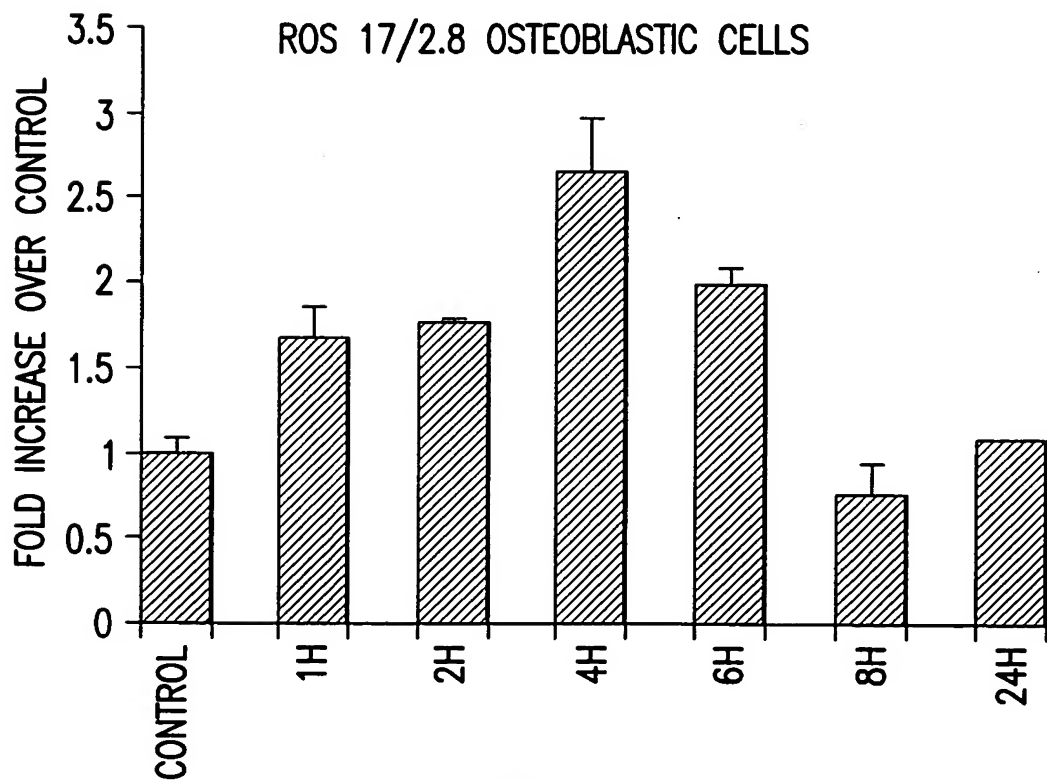


FIG. 11B

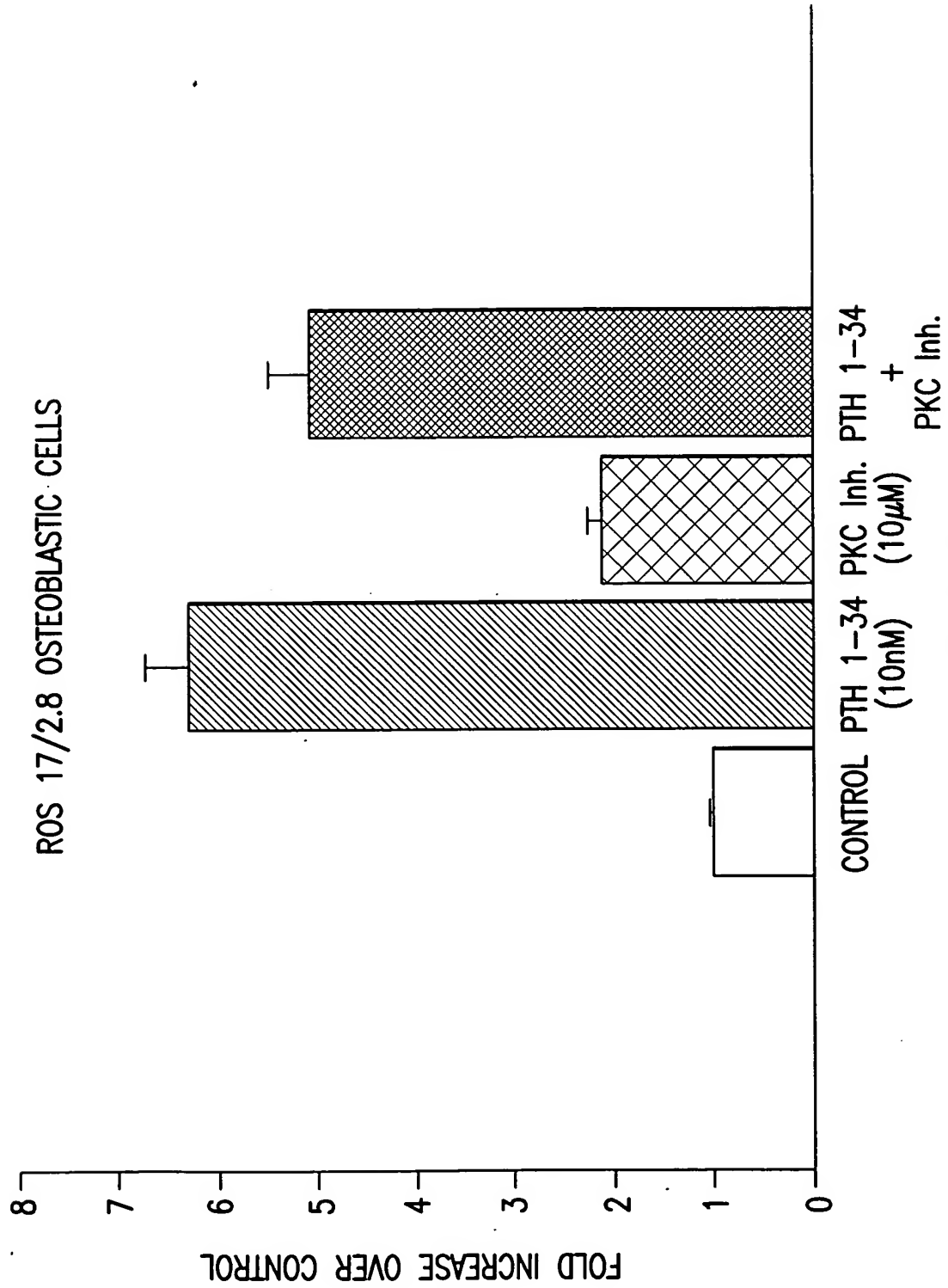


FIG.12

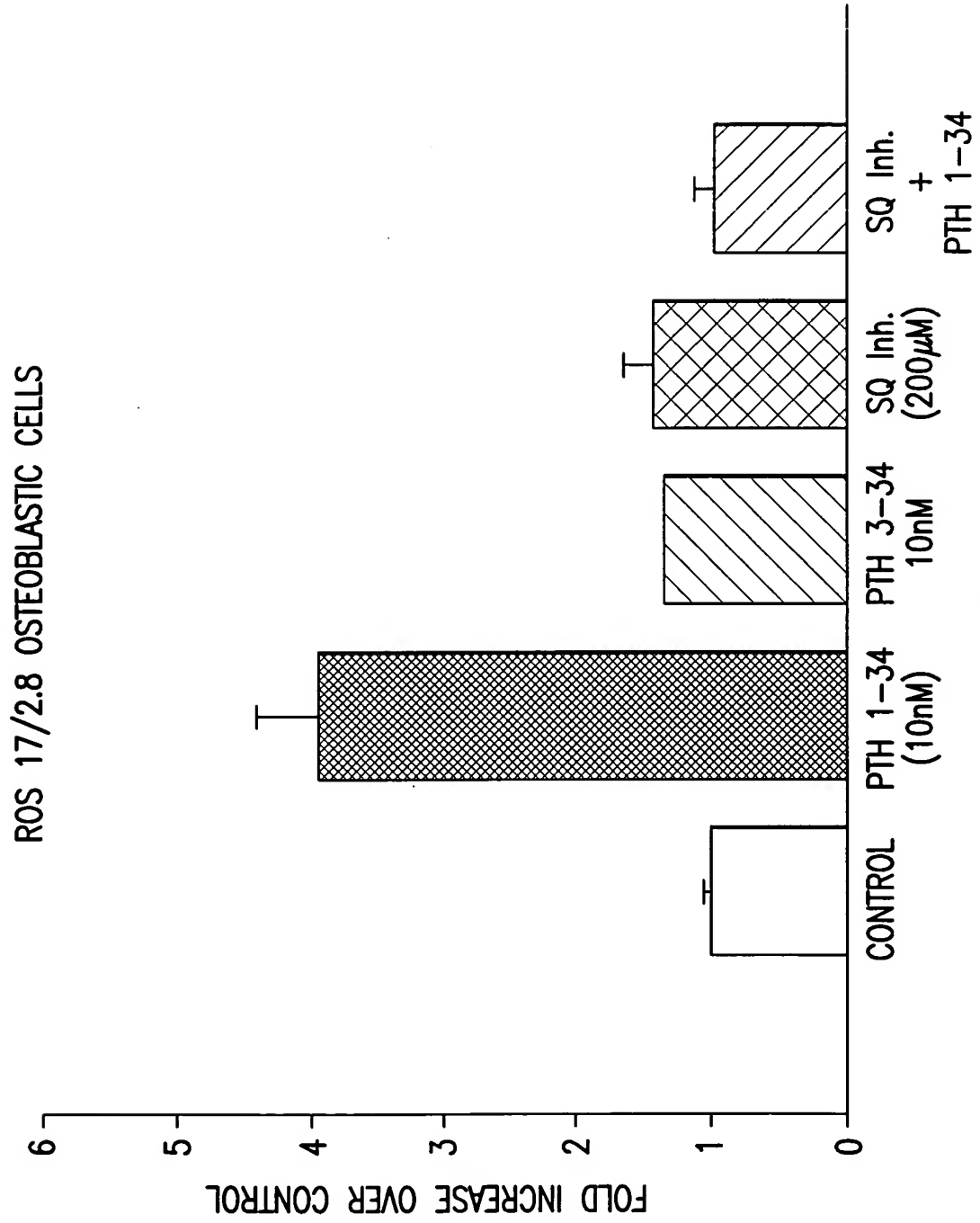


FIG.13

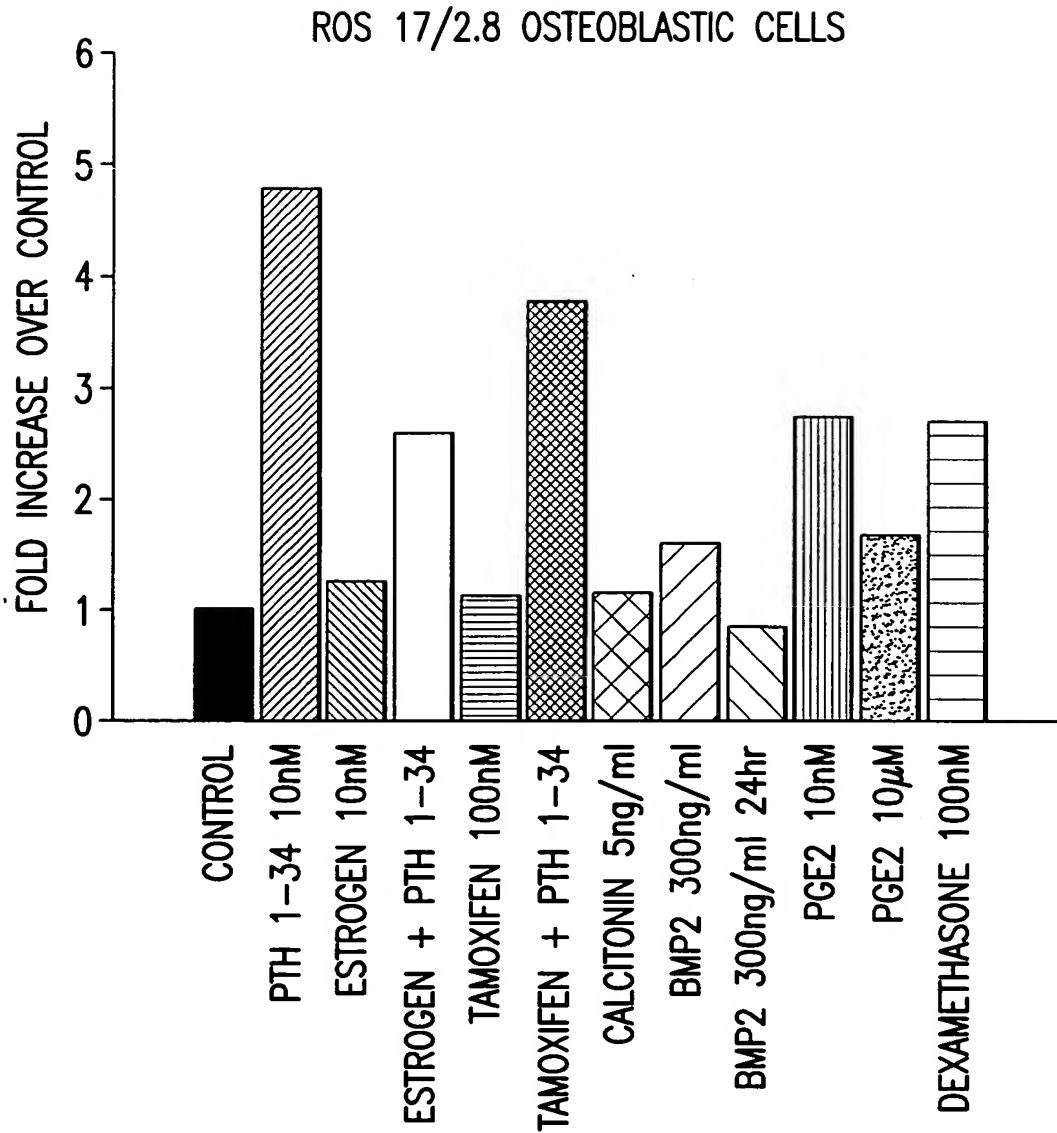
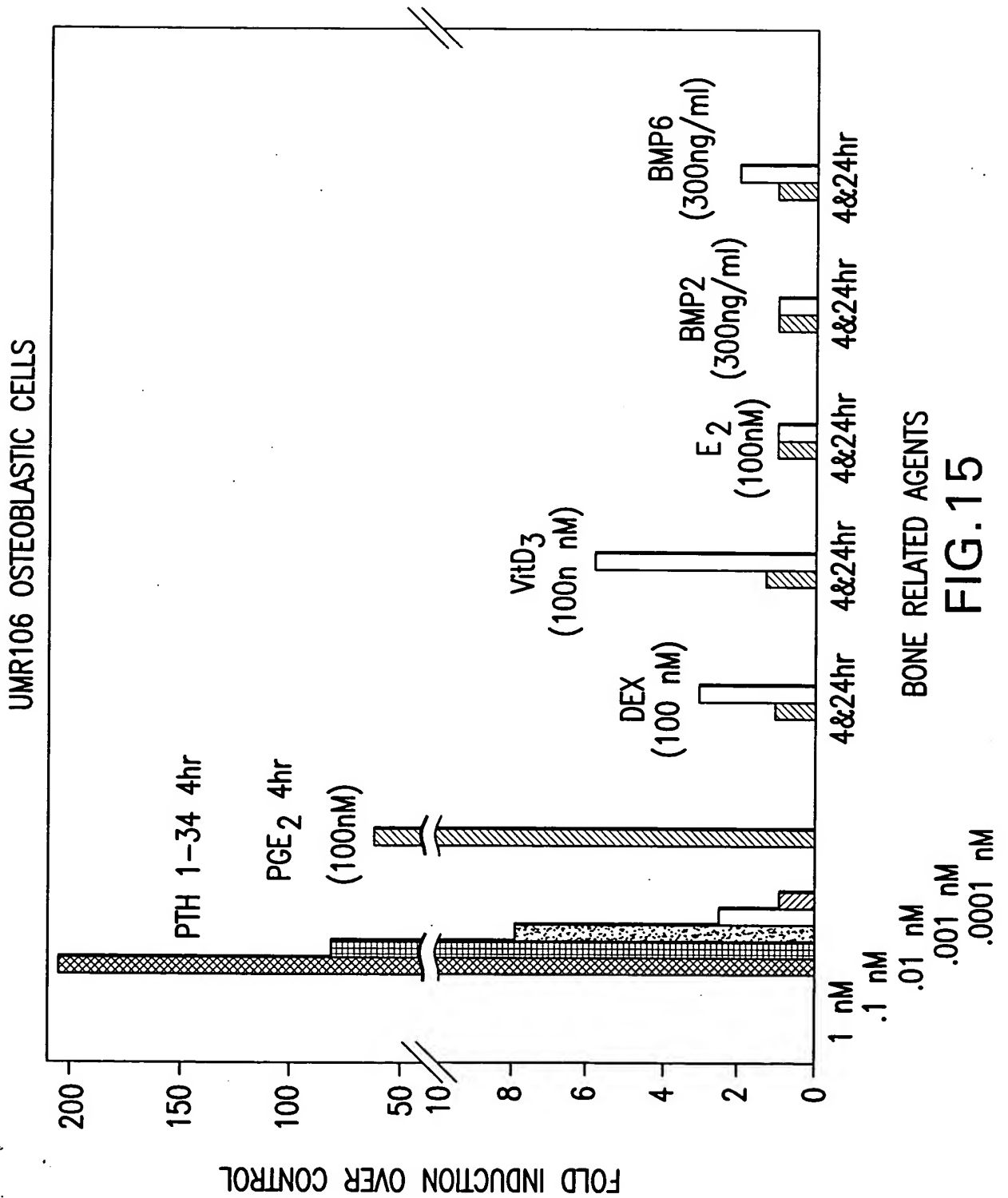


FIG. 14.



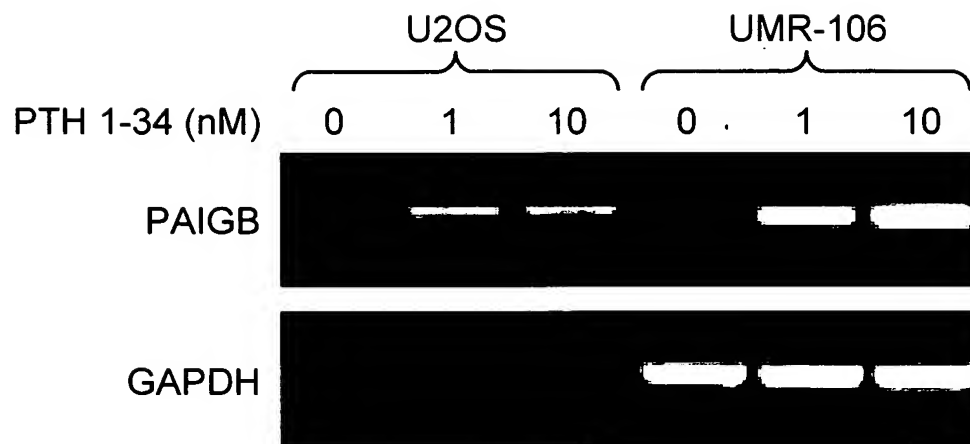


FIG.16A

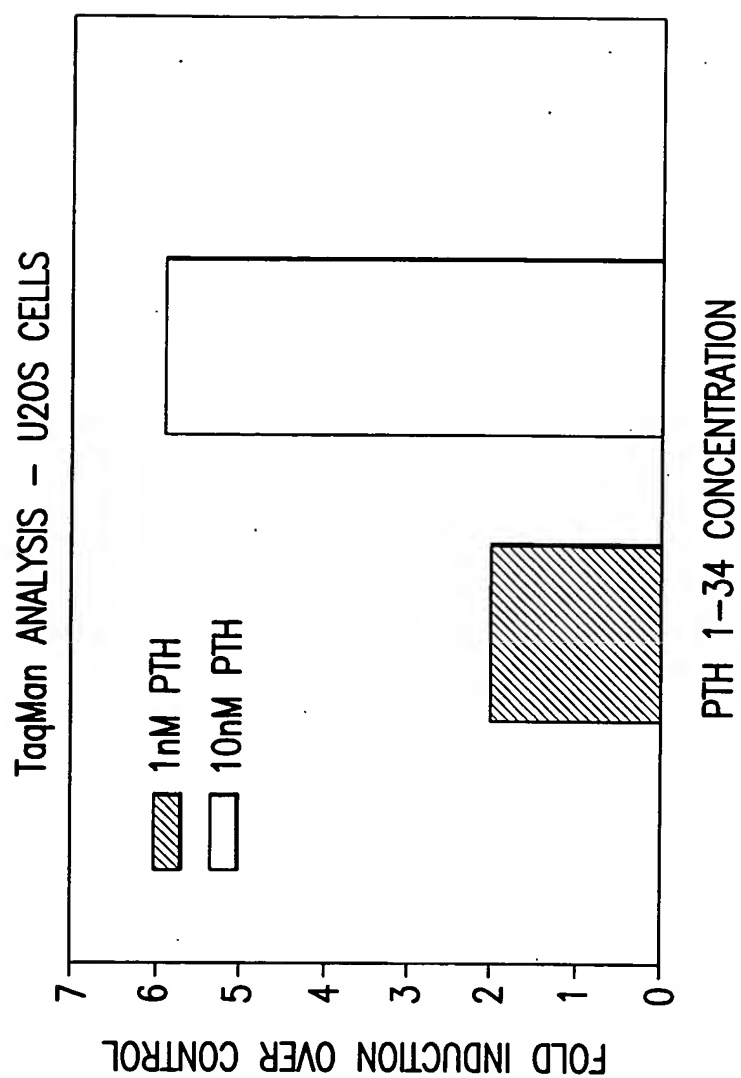


FIG.16B

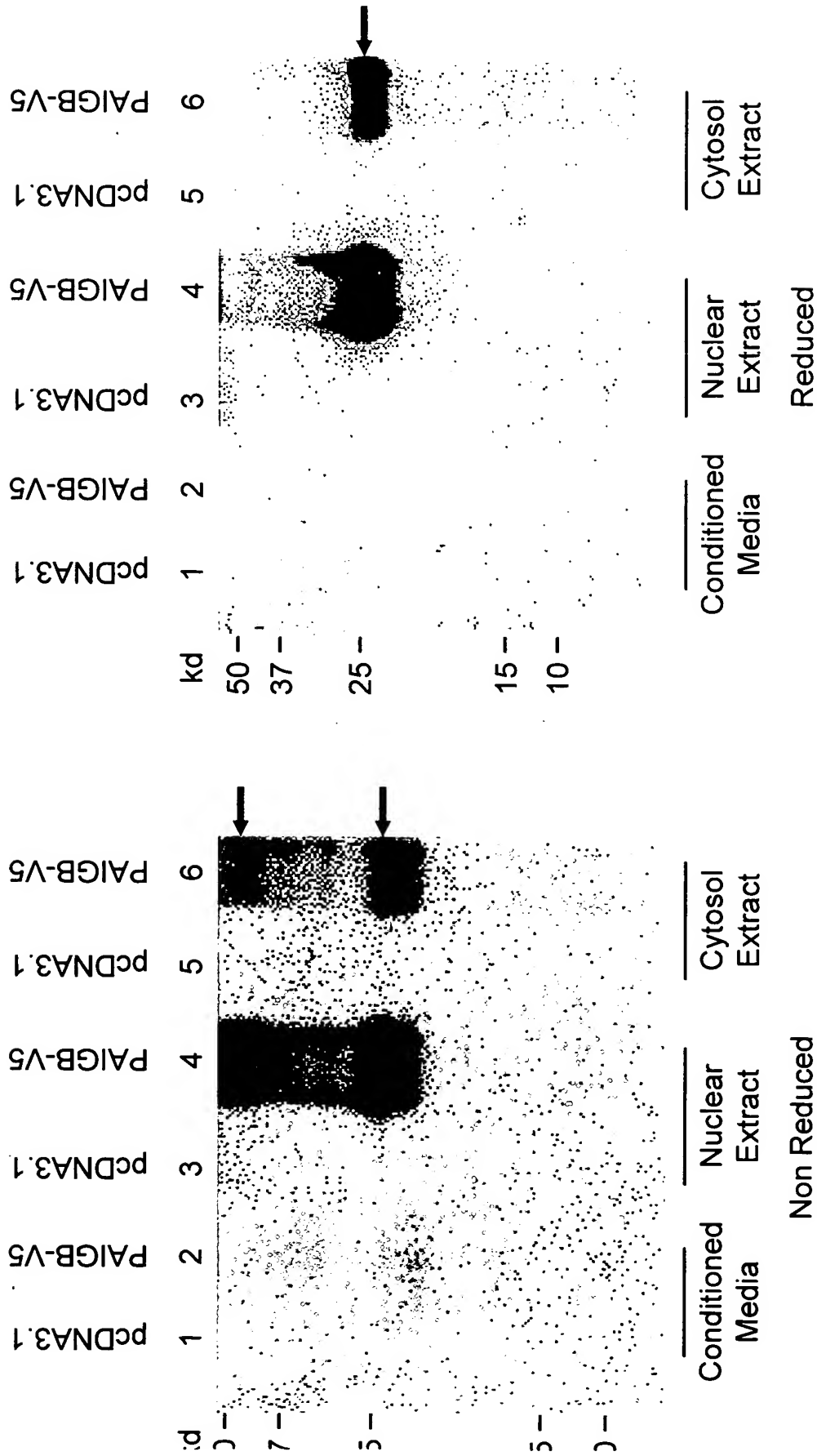


FIG.17

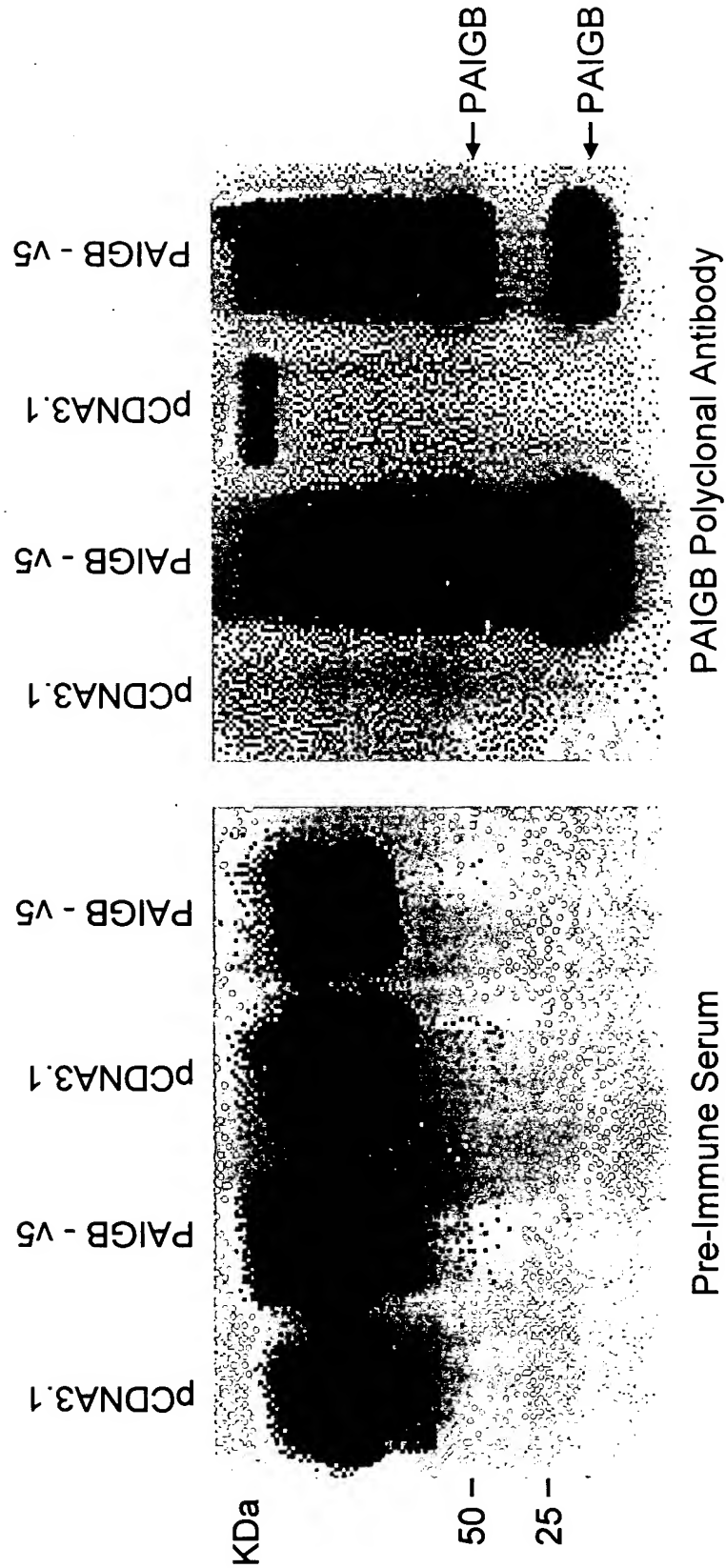


FIG.18

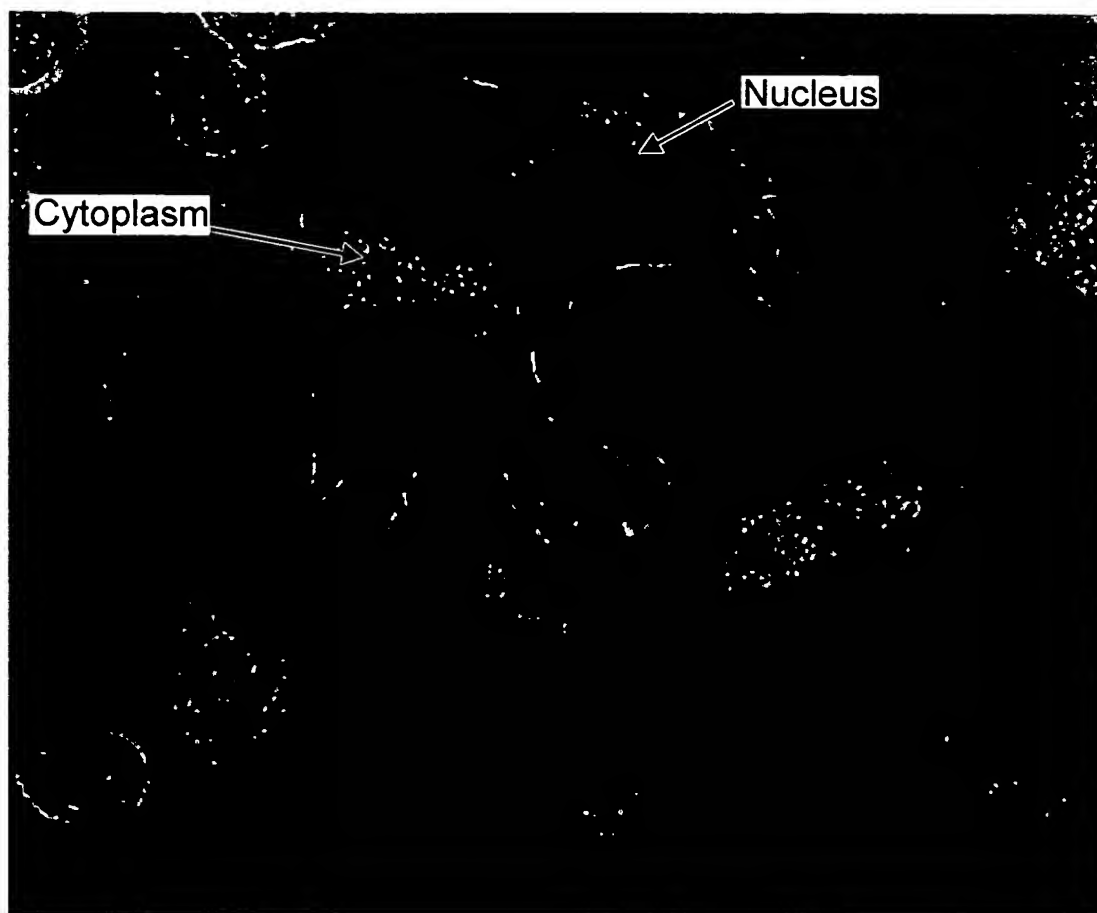


FIG.19

PAIGB Polyclonal Antibody
PTH:1-34 (20ug/kg, 1/d/s.c.) for 18d

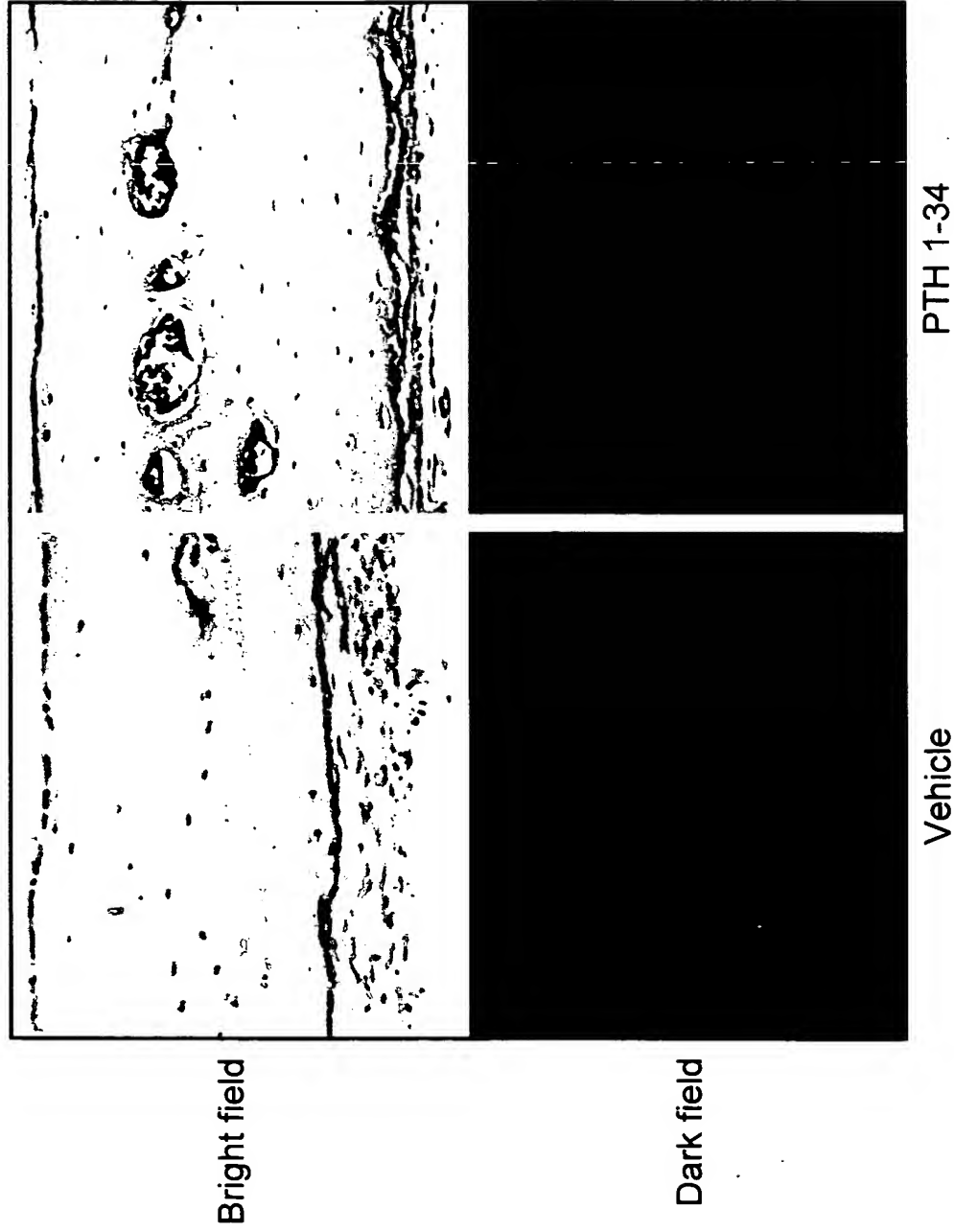


FIG.20

PAIGB Polyclonal Antibody
PTH:1-34 (20ug/kg, 1/d/s.c.) for 18d

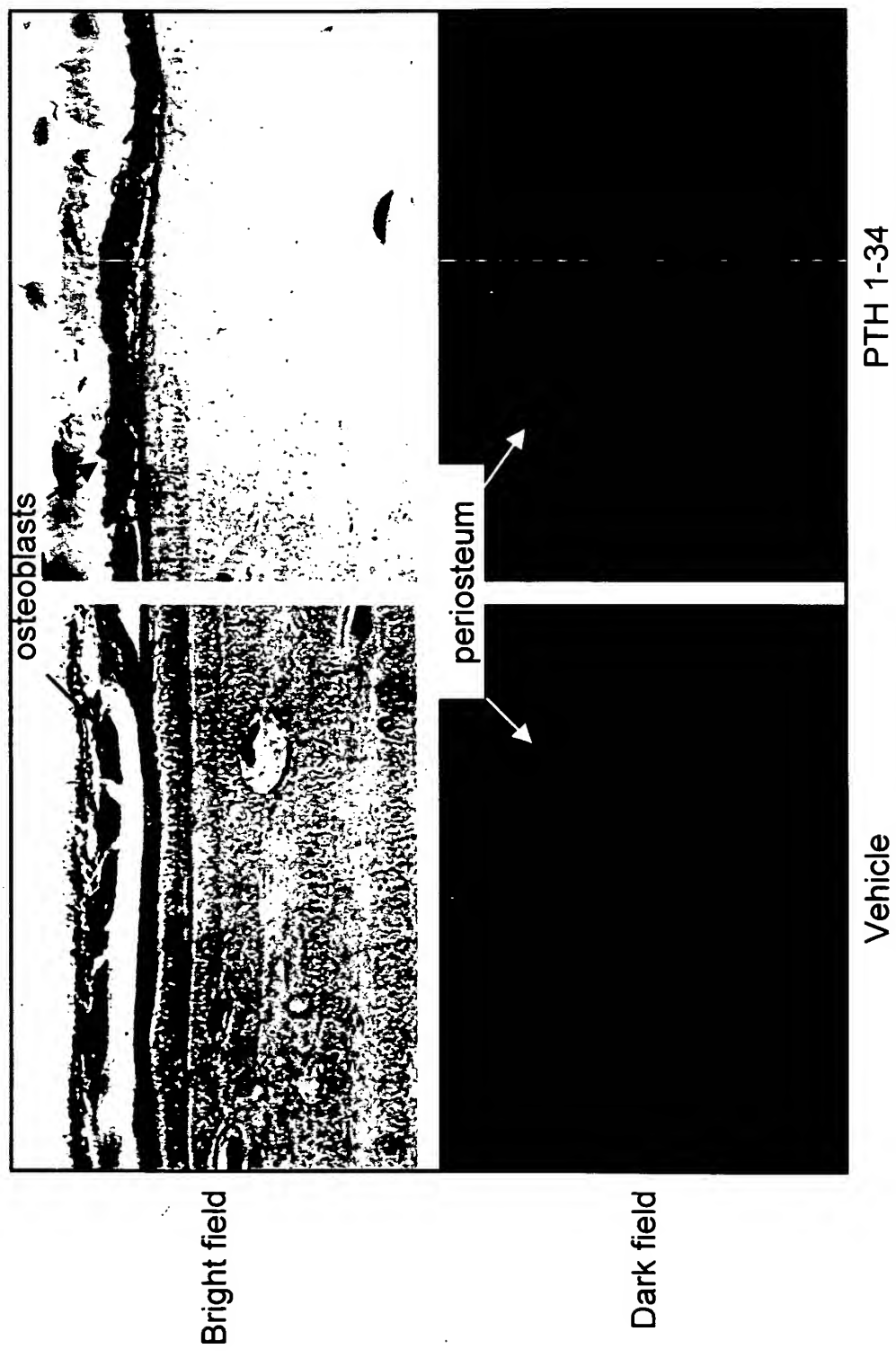


FIG.21

PAIGB Polyclonal Antibody
PTH:1-34 (20ug/kg, 1/d/s.c.) for 18d

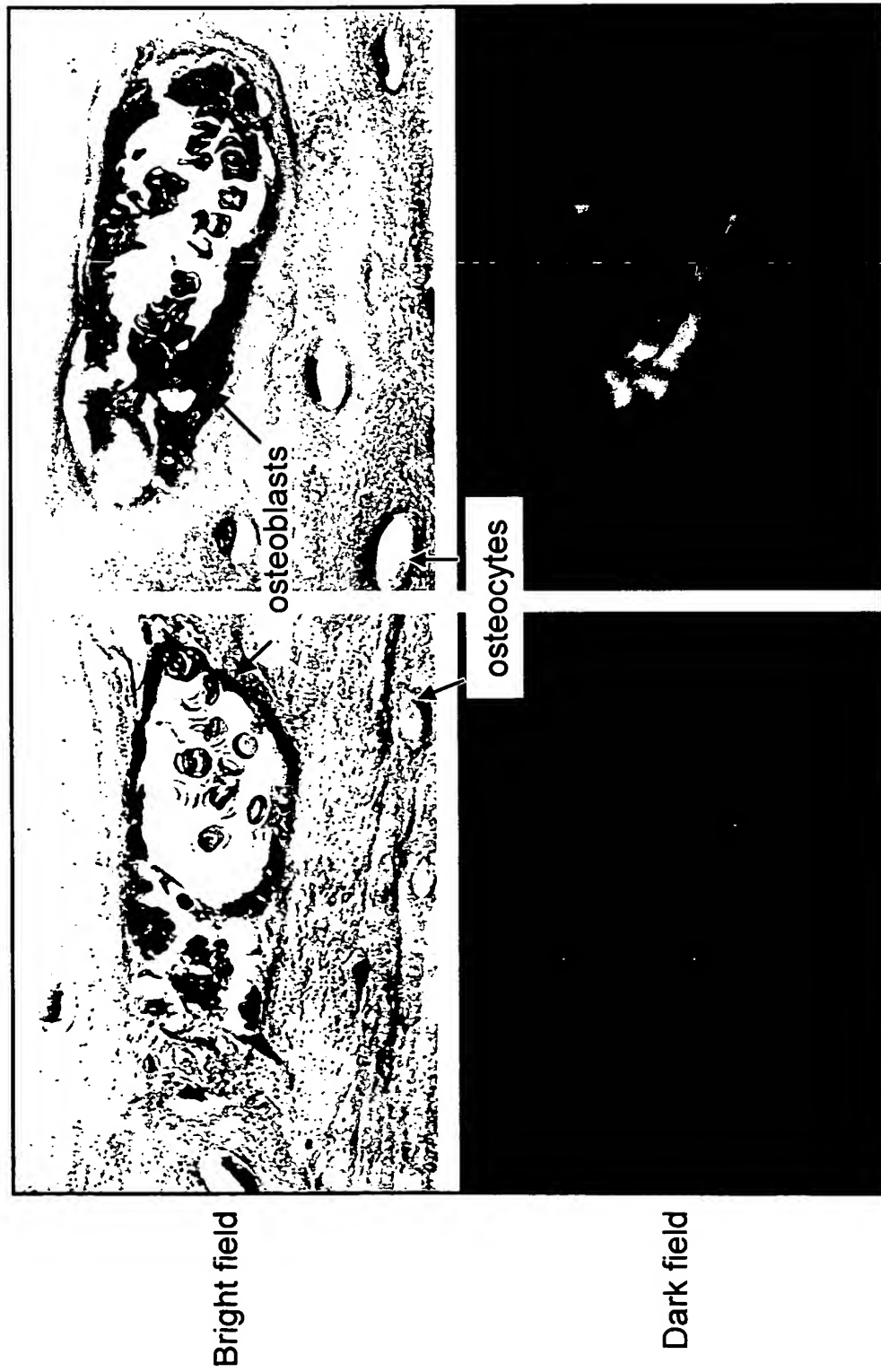


FIG.22

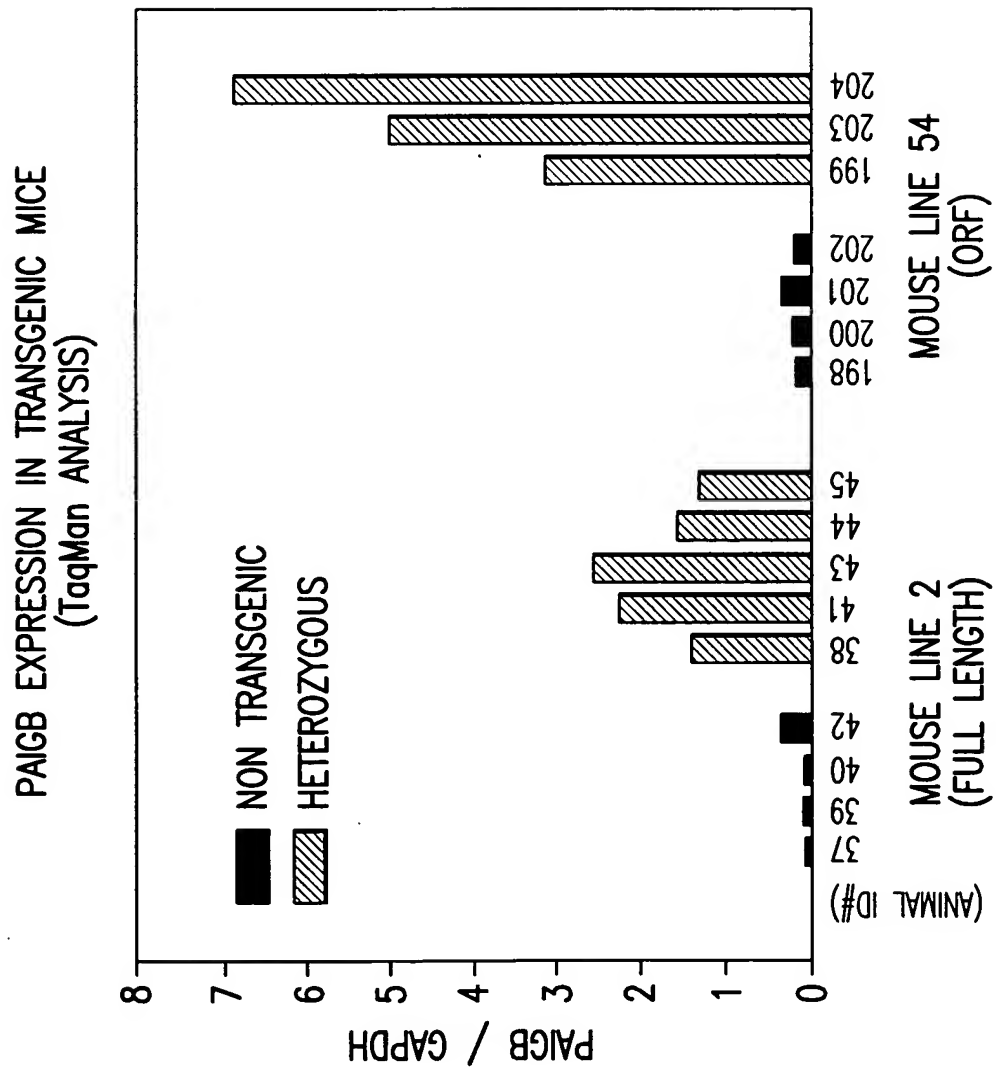


FIG.23

PAIGB Protein Expression
PAIGB Mice: Line 2 (9 wk)

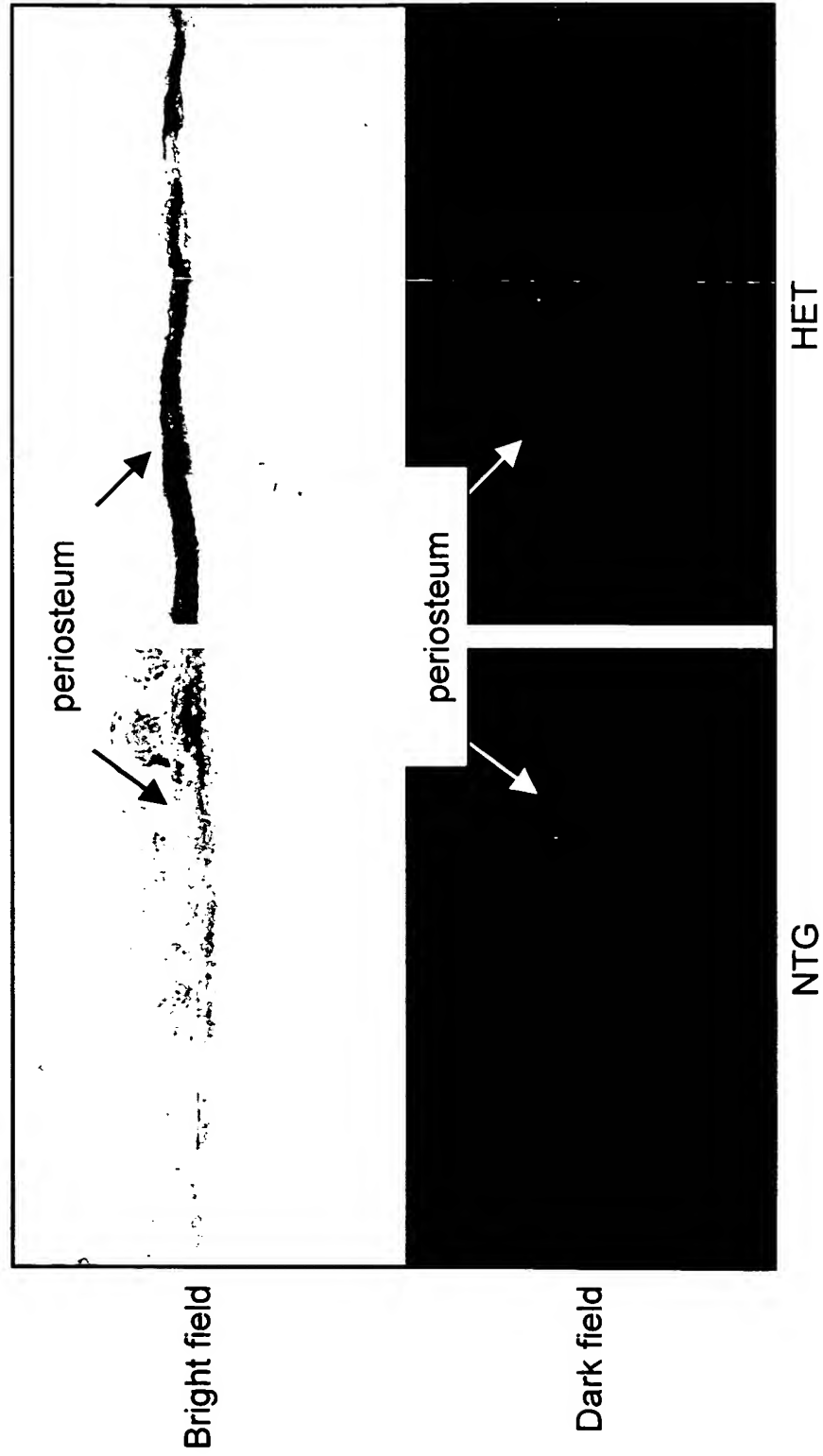


FIG.24

PAIGB Protein Expression
PAIGB Mice: Line 2 (9 wk)

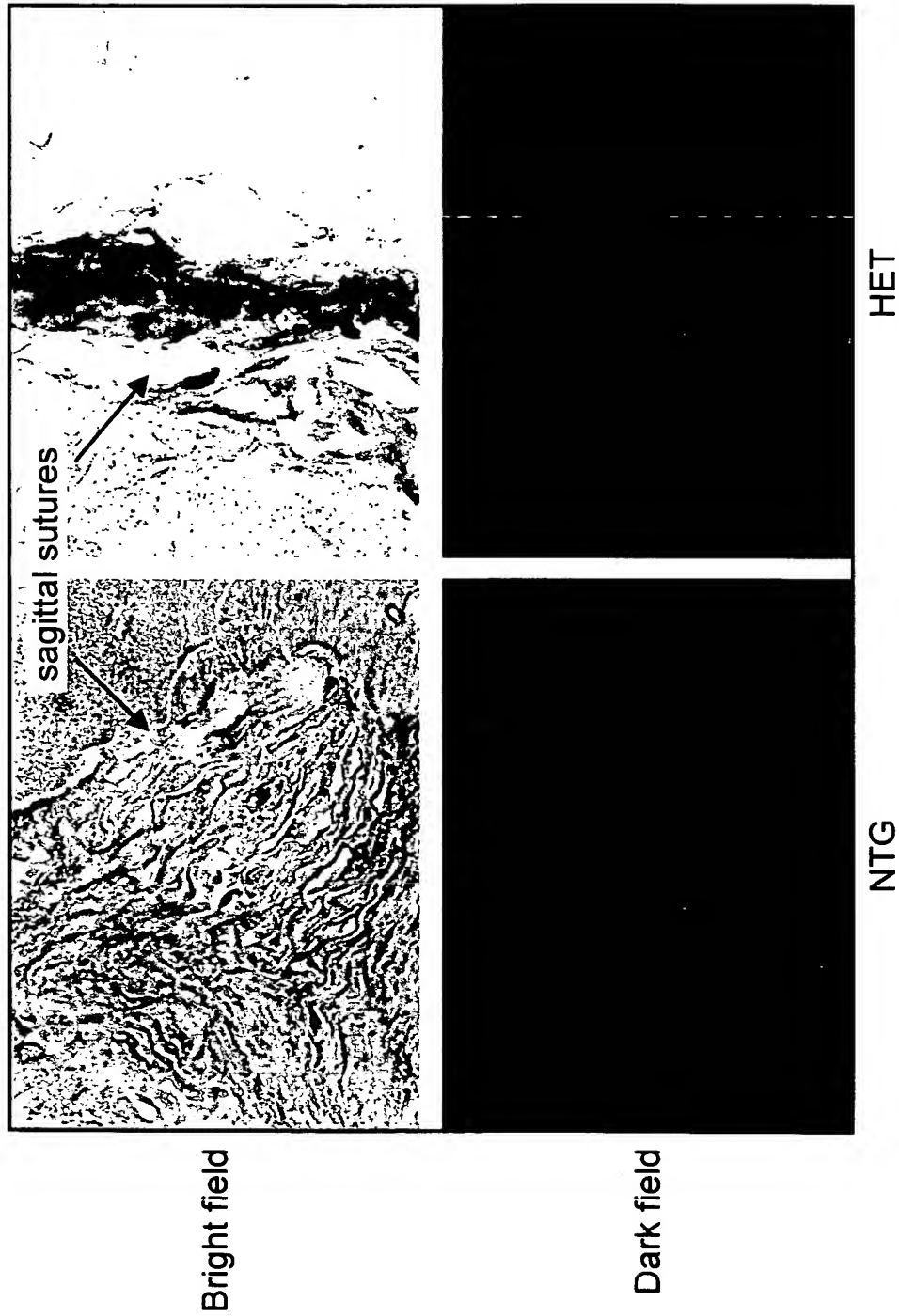


FIG. 25

Alkaline Phosphatase Activity
PAIGB Mice: Line 2 (9 wk)

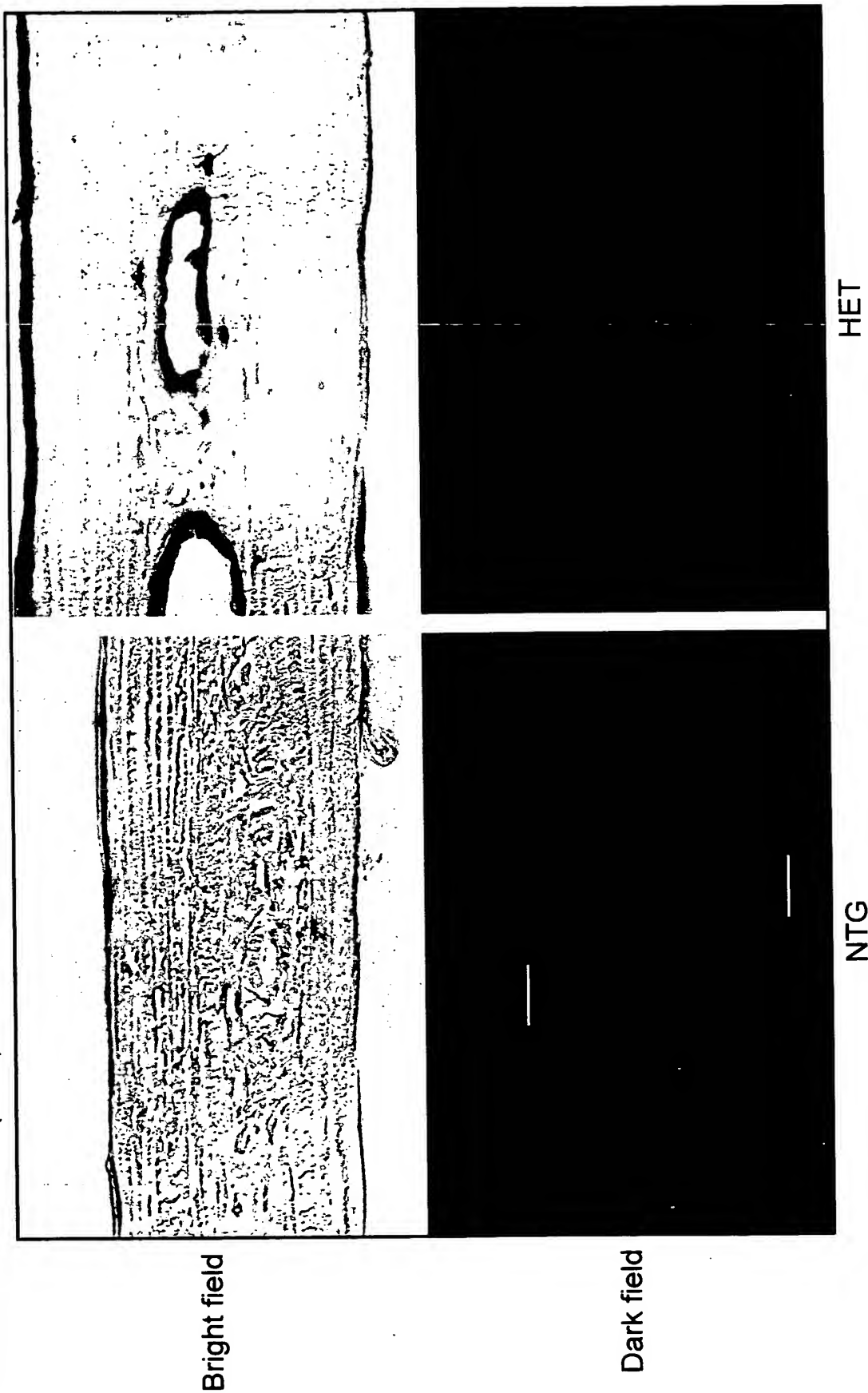


FIG.26

Alkaline Phosphatase Activity
PAIGB Mice: Line 54 (9 wk)

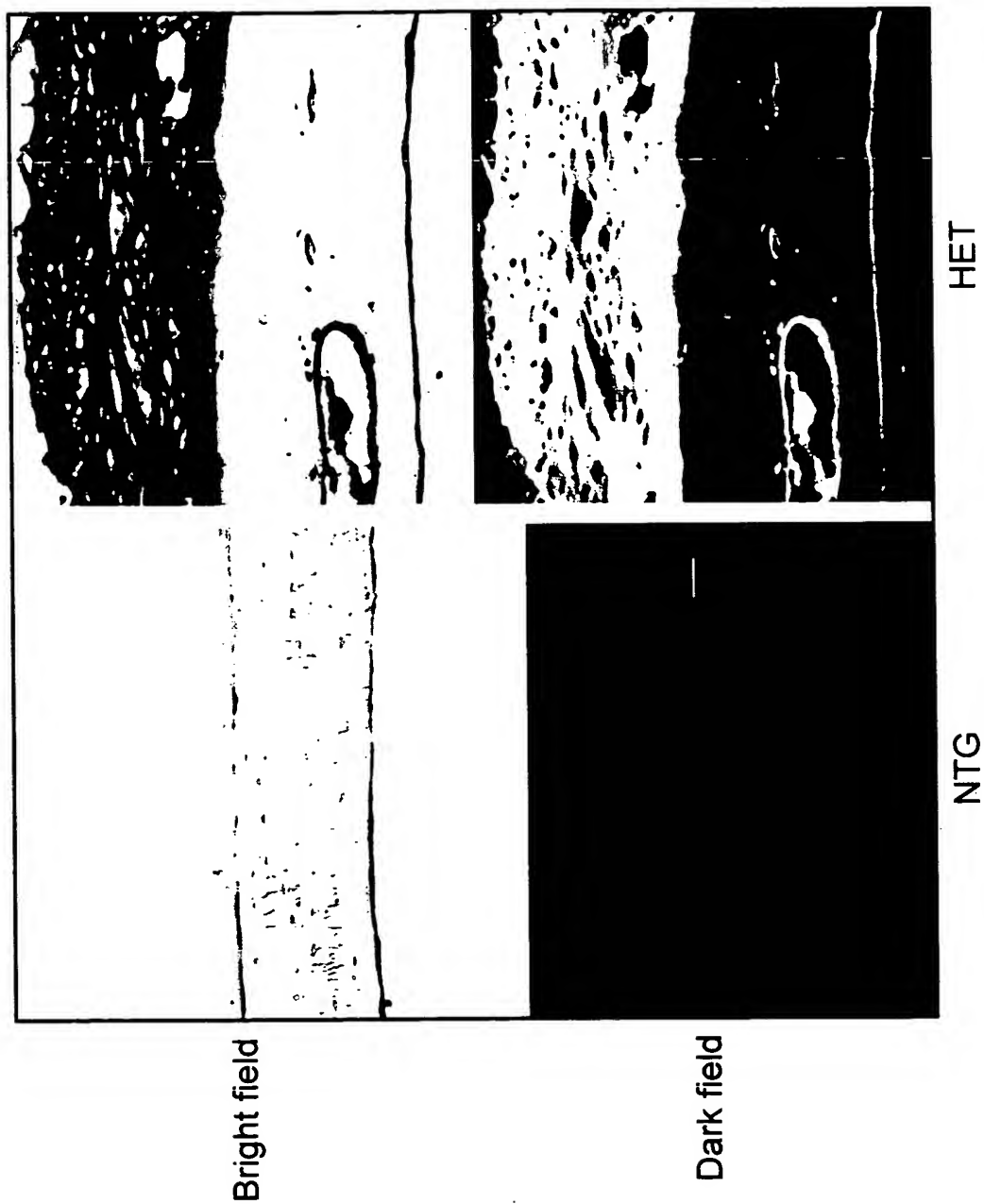


FIG.27